	Application No.	Applicant(s)
Notice of Allowability	10/661,167	SMIRNOV ET AL.
	Examiner	Art Unit	
	ALEX GOFMAN	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to <u>Arguments filed 1-26-11</u>.

2. ☒ The allowed claim(s) is/are <u>32, 37-42, 44, 48, 50-52, 56, 59, 65-66 and 68 renumbered as 1-17</u>.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

            International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____.

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08),
    Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413),
    Paper No./Mail Date <u>20110324</u> .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the

changes and/or additions be unacceptable to applicant, an amendment may be

filed as provided by 37 CFR 1.312. To ensure consideration of such an

amendment, it MUST be submitted no later than the payment of the issue fee.

The following has been authorized for this examiner's amendment, which

was given in a telephone interview with Mark Mathison (57,556) on March 17,

2011.

The following claims have been amended:

Claims 33-36, 43, 45, 60, 67 have been cancelled.

      32.   A method of transforming data, the method comprising:

      positioning a definition pointer to point at a first compound transform

definition within a transform definition file;

      invoking a first parallel processing thread to read the pointed at first

compound transform definition;

searching data to be transformed for a data element to be transformed, the search being responsive to the first compound transform definition;

calling a dynamic function defined in the transform definition file, the dynamic function located elsewhere in the transform definition file from the definition pointer position;

transforming any found data element into an output data file, responsive to the first compound transform definition and called dynamic function, a data structure of the output data file being responsive to a data structure of the first compound transform definition;

determining a type of the read first compound transform definition;

based on determination that the first compound transform definition is compound, processing each sub-definition of the read first compound transform definition by repeating positioning, invoking, searching, calling, and transforming for each sub-definition in order to transform each sub-definition recursively, wherein the data elements transformation includes nesting of a data element;

determining if all sub-definitions of the first compound transform definition have been processed;

positioning a definition pointer to point at a second compound transform definition within the transform definition file;

invoking a second parallel processing thread to read the pointed at

second compound transform definition;

searching data to be transformed for another data element to be

transformed, the search being responsive to the second compound transform

definition; and

transforming any found data element into the output data file,

responsive to the second compound transform definition, the data structure of the

output data file being responsive to the data structure of the second compound

transform definition; and

if no data element is found to be transformed, adding one or more output data

elements to the output data file responsive to the read first compound transform

definition, the data to be transformed having no contribution to the output data

element.

44.   A method of transforming data, the method comprising:

positioning a definition pointer to point at a first compound transform

definition, the first compound transform definition being within a transform

definition file;

invoking a first parallel processing thread to read the pointed at first

compound transform definition and sub-definitions of the first compound

transform definition;

positioning a first payload pointer to point at a first data element to

be transformed, the positioning of the first payload pointer being responsive to a

data structure of the first compound transform definition;

calling a dynamic function defined in the transform definition file, the

dynamic function located elsewhere in the transform definition file from the

definition pointer position;

transforming the first data element into an output data file, responsive to

the read first compound transform definition and called dynamic function;

<u>determining a type of the read first compound transform definition;</u>

<u>based on determination that the first compound transform definition</u>

<u>is compound, processing each sub-definition of the read first compound</u>

<u>transform definition by repeating positioning, invoking, positioning, calling, and</u>

<u>transforming for each sub-definition in order to transform each sub-definition</u>

<u>recursively, wherein the data elements transformation includes nesting of a data</u>

<u>element;</u>

<u>determining if all sub-definitions of the first compound transform</u>

<u>definition have been processed;</u>

positioning the definition pointer to point at a second compound

transform definition, the second compound transform definition being within the

transform definition file;

invoking a second parallel processing thread to read the pointed at

second compound transform definition and sub-definitions of the second

compound transform definition;

positioning a second payload pointer to point at a second data

element to be transformed, the positioning of the second payload pointer being

responsive to a data structure of the second compound transform definition; and

transforming the second data element into the output data file,

responsive to the read second compound transform definition; and

if no first or second data element is found to be transformed, adding one or

more output data elements to the output data file responsive to the read first

compound transform definition, the data to be transformed having no contribution

to the output data element.

59.   A computer readable storage media having embodied thereon

data, the data comprising:

computer instructions configured to position a definition pointer to

point at a first compound transform definition, the first compound transform

definition being within a transform definition file;

computer instructions configured to invoke a first parallel processing thread to read the pointed at first compound transform definition and sub-definitions of the first compound transform definition;

computer instructions configured to position a first payload pointer to point at a first data element to be transformed, the positioning being responsive to a data structure of the first compound transform definition;

computer instructions configured to call a dynamic function defined in the transform definition file, the dynamic function located elsewhere in the transform definition file from the definition pointer position;

computer instructions configured to transform the first data element into an output data file, responsive to the read first compound transform definition and called dynamic function;

computer instructions configured to determine a type of the read first compound transform definition;

based on determination that the first compound transform definition is compound, computer instructions configured to process each sub- definition of the read first compound transform definition by repeating positioning, invoking, positioning, calling, and transforming for each sub-definition in order to transform the each sub-definition recursively, wherein the data elements transformation includes nesting;

computer instructions configured to determine if all sub-definitions of

the first compound transform definition have been processed;

computer instructions configured to position a second payload

pointer to point at a second data element to be transformed, the positioning being

responsive to a data structure of the second compound transform definition;

computer instructions configured to invoke a second parallel

processing thread to read the pointed at second compound transform definition

and sub-definitions of the second compound transform definition; and

computer instructions configured to transform the second data

element into the output data file, responsive to the read second compound

transform definition; and

if no first or second data element is found to be transformed, computer

instructions configured to add one or more output data elements to the output

data file responsive to the read first compound transform definition, the data to be

transformed having no contribution to the output data element.

65.   (Currently amended): An application system comprising:

a computing device comprising: [[;]]

a memory; and

at least one processor operatively coupled to the memory, the at

least one processor configured to:

position a definition pointer to point at a first compound transform definition within a transform definition file;

invoke a first parallel processing thread to read the pointed at first compound transform definition;

search data to be transformed for a data element to be transformed, the search being responsive to the first compound transform definition;

call a dynamic function defined in the transform definition file, the dynamic function located elsewhere in the transform definition file from the definition pointer position;

transform any found data element into an output data file, responsive to the first compound transform definition and called dynamic function, a data structure of the output data file being responsive to a data structure of the first compound transform definition;

determine a type of the read first compound transform definition;

based on determination that the first compound transform definition is compound, process each sub-definition of the read first compound transform definition by repeating positioning, invoking, searching, calling, and transforming for each sub-definition in order to transform the each sub-definition recursively, wherein the data elements transformation includes nesting of a data element;

determine if all sub-definitions of the first compound transform definition have been processed;

position a definition pointer to point at a second compound transform

definition within the transform definition file;

invoke a second parallel processing thread to read the pointed at

second compound transform definition;

search data to be transformed for another data element to be

transformed, the search being responsive to the second compound transform

definition;

transform any found data element into the output data file,

responsive to the second compound transform definition, the data structure of the

output data file being responsive to the data structure of the second compound

transform definition; and

if no data element is found to be transformed, add one or more output data

elements to the output data file responsive to the read first compound transform

definition, the data to be transformed having no contribution to the output data

element

~~means for positioning a definition pointer to point at a first compound~~

~~transform definition within a transform definition file;~~

~~means for invoking a first parallel processing thread to read the first~~

~~compound transform definition by the computing device;~~

~~means for calling a dynamic function defined in the transform definition file,~~

~~the dynamic function located elsewhere in the transform definition file from the~~

~~definition pointer position;~~

~~means for positioning the definition pointer to point at a second~~

~~compound transform definition within the transform definition file;~~

~~means for invoking a second parallel processing thread to read the~~

~~second compound transform definition by the computing device;~~

~~means for positioning a payload pointer to point to a first data~~

~~element, the first data element being a member of a plurality of data elements~~

~~within data to be transformed; and~~

~~means for generating an output data file using the first data element~~

~~and the first and second compound transform definitions;~~

~~wherein the means for positioning the definition pointer and the means for~~

~~positioning the payload pointer are enabled to be invoked concurrently.~~

66.   (Currently Amended): The application system of claim 65, ~~further~~

~~including means for selecting~~ wherein the at least one processor is further

configured to select the transform definition file from a set of transform definitions

files, responsive to data associated with the data to be transformed.

68.   (Currently Amended): The application system of claim 65, ~~further~~

~~including means for adding~~ wherein the at least one processor is further

configured to add data to the output data file, the added data being configured

responsive to the transform definition file and having no contribution from the

data to be transformed.

ALLOWANCE

Claims 32, 37-42, 44, 48, 50-52, 56, 59-60, 65-66 and 68 are allowed over

the prior art made of record.

The following is an examiner's statement of reasons for allowance:

The cited prior art of record, Lee (US Patent Application Publication

2002/0129024), Chung et al (US Patent 6,850,947), and Micco et al (US Patent

Application Publication 2003/0056203), does not disclose, teach or suggest the

claimed invention (in combination with all other features in the claims) with

respect to Independent Claims 32, 44, 59 and 65:

"based on determination that the first compound transform definition is

compound, processing each sub-definition of the read first compound transform

definition by repeating positioning, invoking, positioning, calling, and transforming

for each sub-definition in order to transform each sub-definition recursively,

wherein the data elements transformation includes nesting of a data element."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX GOFMAN whose telephone number is (571)270-1072. The examiner can normally be reached on Mon-Fri 9am-3pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571)272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information

for published applications may be obtained from either Private PAIR or Public

PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-

9199 (IN USA OR CANADA) or 571-272-1000.

                                                    Alex Gofman
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3-24-11
AG

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